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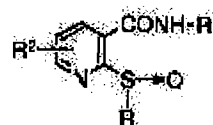
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(54) 2-SULFINYLNICOTINAMIDE DERIVATIVE, ITS INTERMEDIATE AND CURING AGENT FOR PEPTIC ULCER USING THE DERIVATIVE AS ACTIVE COMPONENT

(57)Abstract:

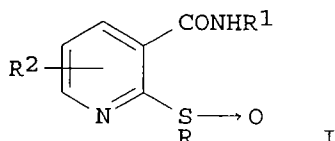
PURPOSE: To obtain a new 2-sulfinylnicotinamide derivative having excellent suppressing activity against the secretion of acid in the stomach and useful as a curing agent for peptic ulcer.

CONSTITUTION: This is a compound of formula I [R¹ is a (4-substituted) phenyl, naphthyl, a (substituted) pyridyl or a (substituted) quinolyl, pyrimidinyl, pyrazinyl, thiazolyl, etc.; R² is H, a halogen, a lower alkyl, a lower alkoxy or a (substituted) phenyl; R is formula II (R³ is H or a lower alkyl; R⁴ is H, a lower alkyl or a (substituted) phenyl; R⁵ is a (substituted) aryl or a (substituted) heteroaryl)], e.g. 2-[(2,4-dimethoxybenzyl) sulfinyl]-N-(4-pyridyl) nicotinamide. The compound is obtained by oxidizing a compound of formula IV which is a new intermediate obtained by reacting a compound of formula III or its reactive derivative with a compound of the formula H₂NR¹. It is understood that the compound of formula I is taken into secretion tubules of gastric parietal cells and subsequently converted into a compound of formula V, and it exhibits inhibitory activity against proton pump through the compound.



IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,
MR, NE, SN, TD, TG

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AB Compds. of formula I [R1 = mono- or di-substituted amino etc. 4-substituted phenyl; hydroxy low alkyl, low alkanoyloxy low alkyl etc.-substituted pyridyl etc.; R2 = H, low-grade alkyl, etc.; R = CR3R4R5 (R3 = H, etc.; R4 = H, low alkyl, etc.; R5 = unsubstituted or substituted alkyl, etc.)] can be prepd. for use in treatment of digestive system disorders such as ulcers. Thus, 2-[(2,4-dimethoxybenzyl)sulfinyl]-N-(4-pyridyl)nicotinamide is produced by reacting 2-[(2,4-dimethoxybenzyl)thio]-N-(4-pyridyl)nicotinamide 6.4 g in methylene chloride 200 mL at 0.degree.C with 3-chloroperbenzoic acid 4.1 g in methylene chloride 50 mL, extn. and purifn. by silica gel chromatog. to yield 4.2 g of product. I inhibit H+/K+ ATPase and inhibit acid secretion by the stomach.

IT 181822-65-1P
RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(2-sulfinylnicotinamide derivs. and their intermediates as active components in drugs for treatment of digestive system ulcers)

RN 181822-65-1 CAPLUS

CN 3-Pyridinecarboxamide, 2-[(diphenylmethyl)sulfinyl]-N-(6-methoxy-3-pyridinyl)- (9CI) (CA INDEX NAME)

